

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 903 to 916

Book

H



Clyde Hodge

TEMPERATURE RECORD.

Instrument used, *N 2*
Current number of observation, *903*
Date, *Dec 9 1880*
Locality, *Potomac River*
Bearings, *Dr. Lookout S. E x E 3, 1/4*
Time of day, *10.05* ; of tide,
State of sky, *Clear*
Temperature of air, *30*
" surface of water, *50* *46405*
" at depth of fathoms,
" of bottom, *40* *46402*
Depth, in fathoms, *4*
Nature of bottom, *Oyster bank*
Direction of surface current, *Wind NW*
Force of surface current, *do 3*
Direction of bottom current, *NW*
Force of bottom current, *5 minutes*
Name of vessel, *Fish Hawk*
To what service attached, *U.S.C.*
Name and rank of commanding officer,
W. J. Lamer
Name and position of observer,

H. V. V.

REMARKS.

Cyprus Bridge

TEMPERATURE RECORD.

Instrument used, *N 7*
Current number of observation, *904*
Date, *Dec 9, 1880*
Locality, *Potomac River*
Bearings, *Pt. Lookout S. E. + E 3 1/4*
Time of day, *10.05* ; of tide,
State of sky, *Clear*
Temperature of air, *30*
" surface of water, *45* *4640 1*
" at depth of fathoms,
" of bottom, *40* *4640 2*
Depth, in fathoms, *4*
Nature of bottom,
Direction of surface current, *Wind NW*
Force of surface current, *also 3*
Direction of bottom current, *Drift N.*
Force of bottom current, *Drift 3/4 minutes*
Name of vessel, *Fish Hawk*
To what service attached, *U.S.F.C.*
Name and rank of commanding officer,
Lt J. S. Lawrence
Name and position of observer,

H. Van Fleet

REMARKS.

Clyta L. H. Dredge

TEMPERATURE RECORD.

Instrument used, *N Y*
Current number of observation, *905*
Date, *Dec 9 1880*
Locality, *Potomac River*
Bearings, *Pt. Lookout S, E, X E 3, 1/4*
Time of day, *10.15* ; of tide,
State of sky, *Clear*
Temperature of air, *30*
" surface of water, *45* *4640 5-*
" at depth of . fathoms,
" of bottom, *740* *4640 2*
Depth, in fathoms, **3 1/2*
Nature of bottom,
Direction of surface current, *wind N W*
Force of surface current, *do* *3*
Direction of bottom current, *drift N N W*
Force of bottom current, *do* *8 minutes*
Name of vessel, *Fish Hawk*
To what service attached, *U.S. Fish Com.*
Name and rank of commanding officer,
A. J. L. Linn
Name and position of observer,

Dr. Van Vleet

REMARKS.

TEMPERATURE RECORD.

Instrument used, *WY*
 Current number of observation, *906*
 Date, *Allen 9, 1880*
 Locality, *Patuxent River*
 Bearings, *Point Lookout S. E. x E 3/4*

Time of day, *10, 33* ; of tide,

State of sky, *Clear*

Temperature of air, *32*

" surface of water, *45* *46405*

" at depth of _____ fathoms,

" of bottom, *39* *46402*

Depth, in fathoms, *3 1/4*

Nature of bottom,

Direction of surface current, *mod n w*

Force of surface current, *do, 3*

Direction of bottom current, *slip n w w*

Force of bottom current, *do 7 minutes*

Name of vessel, *Fish Hawk*

To what service attached, *U.S.C.*

Name and rank of commanding officer,
W. L. Lawrence

Name and position of observer,

Dr. Van Hook

REMARKS.

TEMPERATURE RECORD.

Instrument used, *N 3*
 Current number of observation, *907*
 Date, *Dec 9 / 85.*
 Locality, *Patuxent River,*
 Bearings, *PA Lookout S.E. & E. $\frac{1}{4}$*

 Time of day, *10.40* ; of tide,
 State of sky, *clear*
 Temperature of air, *33*
 " surface of water, *45* *46405*
 " at depth of fathoms,
 " of bottom, *39* *40402*
 Depth, in fathoms, *3*
 Nature of bottom,
 Direction of ~~surface current~~, *mod N W*
 Force of ~~surface current~~, *0 to 3*
 Direction of ~~bottom current~~, *W by N N. W.*
 Force of ~~bottom current~~, *0 to 8 minutes*
 Name of vessel, *Fish Hawk*
 To what service attached, *U.S.C.*
 Name and rank of commanding officer,
 W. F. Zimmerman
 Name and position of observer,
 W. Van Fleet

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation, *908*

Date, *Aug 9 1880*

Locality, *Potomack near Smith's*

Bearing, *Pt Lookout S. E. x E 3 1/4*

Time of day, *10.45*; of tide,

State of sky, *Clear*

Temperature of air, *36*

" surface of water, *45*

" at depth of fathoms,

" of bottom, *gy. s.*

Depth, in fathoms, *3 f.*

Nature of bottom, *gy. s. & sh.*

Direction of surface current, *Wind drift*

Force of surface current, *drift N W*

Direction of bottom current, *etc S W*

Force of bottom current,

Name of vessel, *U.S. Fish Com.*

To what service attached, *U.S.C.*

Name and rank of commanding officer,

A. S. Turner

Name and position of observer,

J. B. Ferguson

TEMPERATURE RECORD.

Instrument used, *W. J.*
 Current number of observation, *909*
 Date, *Dec 9 1880*
 Locality, *Potomac River N. W. Point*
 Bearings, *Lookout Light*

Time of day, *11 47* ; of tide,

State of sky, *Clear*

Temperature of air, *54*

" surface of water, *45*

" at depth of _____ fathoms,

" of bottom, *39*

Depth, in fathoms, *3 1/2*

Nature of bottom, *Broken Rock*

Direction of ~~surface current~~, *Wind N N E*

Force of ~~surface current~~, *do 2*

Direction of bottom current, *drift N.*

Force of bottom ~~current~~, *do 8 m.*

Name of vessel, *Fish Hawk*

To what service attached, *U. S. C.*

Name and rank of commanding officer,
Lt J. L. Lomen

Name and position of observer,
W. Van Dike

REMARKS.

TEMPERATURE RECORD.

Instrument used, *117*
 Current number of observation, *910*
 Date, *Dec 9/00*
 Locality, *Delaware River*
 Bearing, *Pt Lookout S.E. x E 3, 1/4*

Time of day, *11 20* ; of tide.

State of sky, *Clear*

Temperature of air, *34*

" surface of water, *45*

" at depth of _____ fathoms.

" of bottom, *39*

Depth, in fathoms, *3*

Nature of bottom,

Direction of surface current, *round NW*

Force of surface current, *do 2*

Direction of bottom current, *drift NW*

Force of bottom current, *do 10, m.*

Name of vessel, *Fresh Hawk*

To what service attached, *U.S. Navy*

Name and rank of commanding officer,

H. J. L. Larnen

Name and position of observer,

H. J. L. Larnen

REMARKS.

TEMPERATURE RECORD.

Instrument used.

Current number of observation, *911*

Date, *Sept 9 / 80*

Locality, *Patuxent River*

Bearings, *PA Lookout S, E, x E $\frac{1}{2}$, $\frac{1}{4}$*

Time of day, *11.44* ; of tide.

State of sky, *Clear*

Temperature of air, *34*

surface of water, *43*

at depth of _____ fathoms.

" of bottom, ** 40*

Depth, in fathoms, *3*

Nature of bottom,

Direction of ~~surface current~~ -

Wind N W

Force of ~~surface current~~ -

do 1

Direction of ~~bottom current~~ -

Light N W W

Force of ~~bottom current~~ -

do 7 m

Name of vessel,

Fish Hawk

To what service attached.

U.S.C.

Name and rank of commanding officer,

Lt J. L. Lomen

Name and position of observer,

Herbert V. Litch

REMARKS.

TEMPERATURE RECORD.

Instrument used, *N 3*

Current number of observation, *912*

Date, *Dec 9 / 80*

Locality, *Patuxent River*

Bearings, *Patuxent S, E x E $3\frac{1}{4}$*

Time of day, *11.5-4* ; of tide.

State of sky, *Clear*

Temperature of air, *34*

" surface of water, *45*

" at depth of _____ fathoms.

" of bottom, *40*

Depth, in fathoms, *3*

Nature of bottom,

Direction of surface current, *Drift NW*

Force of surface current, *do. 2*

Direction of bottom current, *Drift N*

Force of bottom current, *do 4 M.*

Name of vessel, *Fish Hawk*

To what service attached, *USFC*

Name and rank of commanding officer,

Lt L. L. Lumm

Name and position of observer,

Mr. Van Klief

REMARKS.

TEMPERATURE RECORD.

Instrument used, W3
 Current number of observation, 913
 Date, Nov 9/00
 Locality, Palomares River
 Bearings, Pt Lookout S E x E. $\frac{1}{2}$, $\frac{1}{4}$

Time of day, 12.08 ; of tide,

State of sky, Clear

Temperature of air, 36

" surface of water, 43

" at depth of fathoms,

" of bottom, 40

Depth, in fathoms, 3

Nature of bottom,

Direction of surface-current, Wind NW

Force of surface-current, do 2

Direction of bottom-current, drift NNE

Force of bottom-current, do 12 m.

Name of vessel, Fish Hawk

To what service attached, USFC

Name and rank of commanding officer,

LT J. L. Linneman

Name and position of observer,

Mr Tom V. Linn

REMARKS.

TEMPERATURE RECORD.

Instrument used.

Current number of observation. 914

Date, Dec 9 / 00

Locality, Palomae

Bearings, Pt Lookout S. E. X. E. $\frac{1}{2}$ $\frac{1}{4}$

Time of day, 12.23 ; of tide,

State of sky, Clear

Temperature of air, 38

" surface of water, 45

" at depth of _____ fathoms.

" of bottom, HD

Depth, in fathoms, 3

Nature of bottom.

Direction of ~~surface~~ current, Wind N N W

Force of ~~surface~~ current, do 2

Direction of ~~bottom~~ current, drift N N W

Force of ~~bottom~~ current, do 7 M

Name of vessel, Fish Hawk

To what service attached, U. S. F. C.

Name and rank of commanding officer,
Lt J. L. Larrison

Name and position of observer,

Mr Van Fleet

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, 915

Date, Dec 9/80

Locality, Palomares

Bearing, Pt Lookout S, E. x E. $\frac{1}{3}$, $\frac{1}{4}$

Time of day, 12.38 ; of tide, _____

State of sky, Clear

Temperature of air, 38

surface of water, 45

at depth of _____ fathoms,

of bottom, 40

Depth, in fathoms, 3

Nature of bottom, _____

Direction of ~~surface~~ current, Wind NW

Force of ~~surface~~ current, do 2

Direction of ~~bottom~~ current, drift NW

Force of ~~bottom~~ current, do 5 M

Name of vessel, Fish Hawk

To what service attached, U.S. F.C.

Name and rank of commanding officer, _____

St J L Lomen

Name and position of observer, _____

Dr Van Fleet

REMARKS.

TEMPERATURE RECORD.

Instrument used, *N 3*
 Current number of observation, *916*
 Date, *Dec 9/20*
 Locality, *Patuxent*
 Bearings, *Pt Lookout S. E x E $\frac{1}{2}$ E*

Time of day, *12.47* ; of tide.

State of sky, *Clear*

Temperature of air, *38*

" surface of water, *43-*

" at depth of _____ fathoms,

" of bottom, *40*

Depth, in fathoms, *3*

Nature of bottom.

Direction of ~~surface current~~, *Wind NN*

Force of ~~surface current~~, *0 to 2*

Direction of ~~bottom current~~, *Drift-NNW*

Force of ~~bottom current~~, *0 to 6 TW*

Name of vessel, *Fish Hawk*

To what service attached, *USFC*

Name and rank of commanding officer,
W. J. L. Lamon

Name and position of observer,
Mr. Ken V. Lutz

REMARKS.

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

— surface of water, _____

— at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

" surface of water, _____

" at depth of _____ fathoms, _____

" of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

— surface of water, _____

— at depth of _____ fathoms, _____

— of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ of tide.

State of sky, _____

Temperature of air, _____

— surface of water, _____

" at depth of _____ fathoms, _____

" of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

" surface of water, _____

" at depth of _____ fathoms, _____

" of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

 " surface of water,

 " at depth of fathoms,

 " of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

_____ surface of water, _____

_____ at depth of _____ fathoms, _____

“ _____ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

.. surface of water, _____

.. at depth of _____ fathoms, _____

.. of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearing, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Hour, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

 " surface of water, _____

 " at depth of _____ fathoms, _____

 " of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

Locality, _____

Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

“ surface of water, _____

“ at depth of _____ fathoms, _____

“ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

Direction of surface current, _____

Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

To what service attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

REMARKS.

TEMPERATURE RECORD.

Instrument used, _____

Current number of observation, _____

Date, _____

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Force of bottom current, _____

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TEMPERATURE RECORD.

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Bearings, _____

Time of day, _____ ; of tide, _____

State of sky, _____

Temperature of air, _____

_____ surface of water, _____

_____ at depth of _____ fathoms, _____

“ _____ of bottom, _____

Depth, in fathoms, _____

Nature of bottom, _____

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Force of surface current, _____

Direction of bottom current, _____

Force of bottom current, _____

Name of vessel, _____

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Depth, in fathoms, _____

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Direction of bottom current, _____

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To what service attached, _____

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TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

“ surface of water,

“ at depth of fathoms,

“ of bottom,

Depth, in fathoms, 12

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

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